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IN THE SPECIFICATION:

Please amend the specification as follows.

Please replace the paragraph from page 20, line 32, to page 21, line 4, with the following amended paragraph:

The synchronization coordinator ~~Synchronization coordination~~ 290 takes the synchronization information from the multiple correlation arms and combines and coordinates the data to ensure that the multiple correlation arms work together to ensure quality of service. The synchronization ~~Synchronization~~ coordinator ~~777~~ 290 sends control signals back to the synchronization processors ~~(refs)~~ 240, 280 and timing controllers ~~(refs)~~ 250, 285 as a means of directing the operation of the various arms.

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Edward Chang
1/3/2006

IN THE SPECIFICATION:

Please replace the paragraph running from page 1, line 5, to page 2, line 23, of the

specification with the following:

The present document contains subject matter related to that disclosed in commonly

owned, co-pending application Serial No. 09/209,460 filed December 11, 1998, entitled ULTRA

WIDE BANDWIDTH SPREAD-SPECTRUM COMMUNICATIONS SYSTEM (Attorney

Docket No. 10188-0001-8); Serial No. 09/633,815 filed August 7, 2000, entitled

ELECTRICALLY SMALL PLANAR UWB ANTENNA (Attorney Docket No.10188-0005-8);

Application Serial No. 09/563,292 filed May 3, 2000, entitled PLANAR ULTRA WIDE BAND

ANTENNA WITH INTEGRATED ELECTRONICS (Attorney Docket No. 10188-0006-8);

Application Serial No. 60/207,225 filed May 26, 2000, entitled ULTRAWIDEBAND *now U.S. patent 6,351,246*

COMMUNICATION SYSTEM AND METHOD (Attorney Docket No. 192408US8PROV);

Application Serial No. ~~XX/XXX,XXX~~ 09/685,198, filed October 10, 2000, entitled ANALOG

SIGNAL SEPARATOR FOR UWB VERSUS NARROWBAND SIGNALS (Attorney Docket

No. 192504US8); Application Serial No. ~~XX/XXX,XXX~~ 60/238,466, filed October 10, 2000,

entitled ULTRA WIDE BANDWIDTH NOISE CANCELLATION MECHANISM AND

METHOD (Attorney Docket No.193517US8); Application Serial No. 60/217,099 filed July 10,

2000, entitled MULTIMEDIA WIRELESS PERSONAL AREA NETWORK (WPAN)

PHYSICAL LAYER SYSTEM AND METHOD (Attorney Docket No.194308US8PROV);

Application Serial No. ~~XX/XXX,XXX~~ 09/685,203, filed October 10, 2000, entitled SYSTEM

AND METHOD FOR BASEBAND REMOVAL OF NARROWBAND INTERFERENCE IN

now U.S. patent 6,834,073
ULTRA WIDEBAND SIGNALS (Attorney Docket No.194381US8); Application Serial No.

~~XX/XXX,XXX~~ 09/685,197, filed October 10, 2000, entitled MODE CONTROLLER FOR

SIGNAL ACQUISITION AND TRACKING IN AN ULTRA WIDEBAND

now U.S. patent 6,965,630

COMMUNICATION SYSTEM (Attorney Docket No. 194588US8); Application Serial No.

~~XX/XXX,XXX~~ 09/684,400, filed October 10, 2000, entitled ULTRA WIDEBAND

COMMUNICATION SYSTEM, METHOD, AND DEVICE WITH LOW NOISE PULSE

now U.S. patent 6,735,238

FORMATION (Attorney Docket No. 195268US8); Application Serial No. ~~XX/XXX,XXX~~

09/685,195, filed October 10, 2000, entitled ULTRA WIDE BANDWIDTH SYSTEM AND

now U.S. patent 6,925,108

METHOD FOR FAST SYNCHRONIZATION (Attorney Docket No. 195269US8); Application

Serial No. ~~XX/XXX,XXX~~ 09/684,401, filed October 10, 2000, entitled ULTRA WIDE

BANDWIDTH SYSTEM AND METHOD FOR FAST SYNCHRONIZATION USING SUB

now U.S. patent 6,967,993

CODE SPINS (Attorney Docket No. 195272US8); ~~Application Serial No. XX/XXX,XXX filed~~

~~October 10, 2000, entitled ULTRA WIDE BANDWIDTH SYSTEM AND METHOD FOR~~

~~FAST SYNCHRONIZATION USING MULTIPLE DETECTION ARMS (Attorney Docket No.~~

~~195273US8);~~ Application Serial No. ~~XX/XXX,XXX~~ 09/685,199, filed October 10, 2000,

entitled A LOW POWER, HIGH RESOLUTION TIMING GENERATOR FOR ULTRA-WIDE

now U.S. patent 6,975,665

BANDWIDTH COMMUNICATION SYSTEMS (Attorney Docket No. 195670US8);

Application Serial No. ~~XX/XXX,XXX~~ 09/685,202, filed October 10, 2000, entitled METHOD

AND SYSTEM FOR ENABLING DEVICE FUNCTIONS BASED ON DISTANCE

INFORMATION (Attorney Docket No. 195671US8); Application Serial No. ~~XX/XXX,XXX~~

09/685,201, filed October 10, 2000, entitled CARRIERLESS ULTRA WIDEBAND WIRELESS

now U.S. patent 6,505,032

SIGNALS FOR CONVEYING APPLICATION DATA (Attorney Docket No. 196108US8);

Application Serial No. ~~XX/XXX,XXX~~ 09/685,205, filed October 10, 2000, entitled SYSTEM

AND METHOD FOR GENERATING ULTRA WIDEBAND PULSES (Attorney Docket No.

197023US8); Application Serial No. ~~XX/XXX,XXX~~ 09/684,782, filed October 10, 2000,

entitled ULTRA WIDEBAND COMMUNICATION SYSTEM, METHOD, AND DEVICE

now U.S. patent 6,859,506

WITH LOW NOISE RECEPTION (Attorney Docket No.197024US8); and Application Serial

No. ~~XX/XXX,XXX~~ 09/685,200, filed October 10, 2000, entitled LEAKAGE NULLING

RECEIVER CORRELATOR STRUCTURE AND METHOD FOR ULTRA WIDE

now U.S. patent 6,937,646

BANDWIDTH COMMUNICATION SYSTEM (Attorney Docket No. 1541.1001/GMG), the

entire contents of each of which being incorporated herein by reference.

Please replace the paragraph on page 22, lines 10-22, of the specification with the

following:

After phase acquisition, the received signal may be tracked as a means of maintaining

synchronization as in steps 304 and 308 of Figure 5. This can be done by methods described in,

for example, co-pending US patent application entitled "ULTRAWIDE BANDWIDTH

SYSTEM AND METHOD FOR FAST SYNCHRONIZATION," serial number ~~XX/XXX,XXX~~

now U.S. patent 6,925,108

09/685,195, filed concurrently with the present document and having common inventorship as

with the present document, the contents of which being incorporated herein by reference. As

discussed in the above referenced co-pending patent, many embodiments for performing phase

tracking are possible in the current invention. These tracking methods may employ more than

one mixer, or just the on-time term from a single mixer as illustrated in the embodiments of the

above referenced co-pending patent. During the process of tracking incremental phase errors, a

method may be employed for making frequency adjustments to the timing generator 7 in Figure

1A. Various embodiments involving frequency acquisition are possible as discussed in the above

co-pending patent.

Please replace the paragraph on page 30, lines 2-9, of the specification with the following:

In step 1520, the phase offset, ϕ, is incremented by z_j from the initial phase offset θ, which may be random, such that $\phi = \theta + z_j$. In step 1530, the correlation estimate for the current phase offset, K, is computed. K is then used to compute the SNR parameter R. This can be done by methods described in, for example, co-pending US patent application entitled "MODE CONTROLLER FOR SIGNAL ACQUISITION AND TRACKING IN AN ULTRA WIDEBAND COMMUNICATIONS SYSTEM," serial number ~~XX/XXX,XXX~~ 09/685,197, *now U.S. patent 6,965,630* filed concurrently with the present document and having common inventorship as with the present document, the contents of which being incorporated herein by reference.